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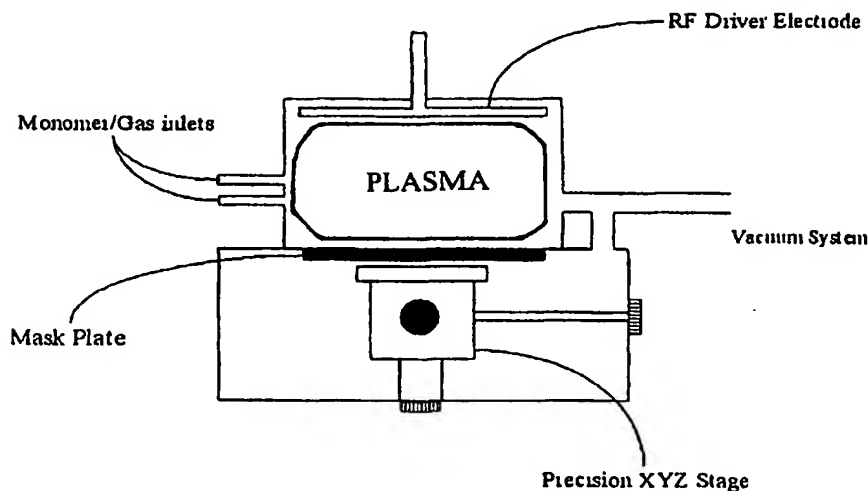
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(54) Title: **PLASMA POLYMERISATION METHODS FOR THE DEPOSITION OF CHEMICAL GRADIENTS AND SURFACES DISPLAYING A GRADIENT OF IMMOBILISED BIOMOLECULES**



(57) Abstract: The invention relates to a method to prepare at least part of at least one surface of a substrate comprising depositing on the surface at least one plasma monomer from a monomer source wherein during deposition of said monomer said monomer and/or said surface are moved relative to one another to provide a non-uniform plasma polymerised surface, and introducing to at least part of said plasma polymerised surface a binding entity to provide a non-uniform surface formed from said binding entity.

WO 2004/111648 A3



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